

What is claimed is:

1. A switching power source apparatus comprising:

 a switching output circuit for outputting a DC output voltage converted from a DC power source voltage by a semiconductor switch which is on-off controlled;

5 error amplifying means for comparing said DC output voltage with a reference voltage to generate a feedback signal which decreases as said DC output voltage increases;

 a current detecting circuit for detecting an output current flowing through said switching output circuit to

10 generate a current detecting signal which decreases as said output current increases; and

 a PWM comparator, to which said feedback signal and said current detecting signal are inputted as comparison signals and a triangular wave signal is inputted as a

15 reference signal, for comparing a lower signal of said comparison signals and said triangular wave signal to output a PWM signal,

 wherein said semiconductor switch is on-off controlled by said PWM signal.

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2. The switching power source apparatus according to claim 1,

 wherein said current detecting signal is outputted

through a low-pass filter.

3. The switching power source apparatus according to
claim 2,

5 wherein said low-pass filter includes:

a resistor provided between an input side and an
output side;

a capacitor between said output side and a reference
point; and

10 a semiconductor switch for charge discharging, which
is connected in parallel to said capacitor, to be turned on
when a voltage on the input side becomes lower than a
voltage on the output side.